Preliminary Submittal Checklist

No.	Submittal Element	Included
	Fish Passage Plan Sheets (8 sheets)	
1.	Sheet Location Map – includes stream stationing and road alignments for reference	☒
2.	Stream Alignment and Grading Plans – Proposed Channel and Culvert Plans with proposed grading, wall labels, and labels for lengths and spans of proposed crossings	☒
3.	Stream LWM and Habitat Features Plans – include lengths, diameters, and locations of LWM; locations of Meander Bars	☒
4.	Stream Alignment and Geometry Table – Curve and Tangent Data	☒
	Fish Passage Profile Sheets (2 sheets)	
5.	Stream Profiles with elevation labels	☒
6.	Streambed Mix Depth	☒
7.	Stream Stationing and Grades	☒
8.	Typical Culvert 1, 2, and 3 cross-sections with locations and sizes	☒
9.	Proposed Utility Crossing Locations, Sizes, and Depths	☒
	Fish Passage Detail Sheets (2 sheet)	
10.	Typical Sections for Culverts 1, 2, and 3 with utility crossings	☒
11.	Typical Meander Bar Detail – Plan and Cross-section	☒
12.	Meander Bar General Notes for Material Gradation, Installation, and Slash	☒
	Fish Passage Cross-sections (4 sheets)	
13.	Typical Sections per channel segment	☒
14.	Material Depth and Gradation	☒
15.	LWM Section Details– Logs identified and cross-referenced to LWM and Habitat Features Plans	☒
16.	LWM Schedule/Table identifying logs with reference to LWM Plans and LWM Section Details	☒
	LWM Details (3 sheets)	
17.	LWM Section Details with stream section and logs	☒
18.	Logs identified and cross-referenced to LWM and Habitat Features Plans	☒
19.	LWM Schedule/Table identifying logs with reference to LWM Plans and LWM Section Details	☒
20.	LWM accounts for Total number of LWM	☒
21.	Mobile wood details for in culvert with accurate stream, culvert, and log dimensions, and 2-year flow depth	☒
22.	LWM Control Table and Log Schedule	☒

Draft Final Hydraulic Design Report (Report – 72 pages; Appendices – 86 pages)		
23.	Project Overview with Vicinity Map	☒
24.	Site Conditions – Land Cover, Soils, Fish Habitat and Geomorphology including existing channel gradient, bankfull width measurements, sediment size and supply, and presence of LWM	☒
25.	Hydrology and Peak Flow Estimates	☒
26.	Hydraulic Analysis and Design – Model Development, Existing Conditions Model Results, Channel Design including planform, shape, alignment, and gradient	☒
27.	Design Methodology	☒
28.	Future Conditions – Proposed Hydraulic Opening	☒
29.	Proposed Conditions Model Results	☒
30.	Water Crossing Design – Minimum Hydraulic Opening and Freeboard	☒
31.	Streambed Design	☒
32.	Channel Complexity – Design Concept and Stability Analysis	☒
33.	Climate Resilience	☒
34.	Scour Analysis – Contraction, Local, Bend, and Total Scour	☒
35.	Existing and Proposed channel cross-sections	☒
36.	Existing and Proposed Water Surface Profiles	☒
37.	Hydraulic Field Report Form	☒
38.	Stream Design Parameter Exhibits	☒
39.	MGS Flood Model Results for Peak Flows	☒
40.	SRH-2D Model Results – Existing and Proposed	☒
41.	Streambed Material Sizing Calcs	☒
42.	Scour Calculations	☒
43.	Large Woody Material Calculations	☒
44.	Climate Resilience Output	☒

COMMENTS

Number of fish passage sheets for Plans, Profile, Sections, and Details to be determined at later date.